

Ravi Sankar

List of Publications by Citations

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73
papers

1,737
citations

15
h-index

41
g-index

102
ext. papers

2,141
ext. citations

4
avg, IF

5.14
L-index

#	Paper	IF	Citations
73	Time Series Prediction Using Support Vector Machines: A Survey. <i>IEEE Computational Intelligence Magazine</i> , 2009 , 4, 24-38	5.6	518
72	A Survey of Intrusion Detection Systems in Wireless Sensor Networks. <i>IEEE Communications Surveys and Tutorials</i> , 2014 , 16, 266-282	37.1	467
71	Signal processing methods for pulse oximetry. <i>Computers in Biology and Medicine</i> , 1996 , 26, 143-59	7	127
70	Gait and tremor assessment for patients with Parkinson's disease using wearable sensors. <i>ICT Express</i> , 2016 , 2, 168-174	4.9	55
69	An energy-efficient access control scheme for wireless sensor networks based on elliptic curve cryptography. <i>Journal of Communications and Networks</i> , 2009 , 11, 599-606	4.1	43
68	An Efficient Mutual Authentication and Access Control Scheme for Wireless Sensor Networks in Healthcare. <i>Journal of Networks</i> , 2011 , 6,		39
67	Trends in fetal monitoring through phonocardiography: Challenges and future directions. <i>Biomedical Signal Processing and Control</i> , 2017 , 33, 289-305	4.9	37
66	Computer-aided mass detection based on ipsilateral multiview mammograms. <i>Academic Radiology</i> , 2007 , 14, 530-8	4.3	37
65	Two-Relay-Based Cooperative MAC Protocol for Wireless Ad hoc Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 3361-3373	6.8	36
64	Automatic computer analysis of transients in EEG. <i>Computers in Biology and Medicine</i> , 1992 , 22, 407-22	7	28
63	Boundary delineation in transrectal ultrasound image for prostate cancer. <i>Computers in Biology and Medicine</i> , 2007 , 37, 1591-9	7	27
62	Activity-oriented access control to ubiquitous hospital information and services. <i>Information Sciences</i> , 2010 , 180, 2979-2990	7.7	26
61	Evaluation and analysis of a face and voice outdoor multi-biometric system. <i>Pattern Recognition Letters</i> , 2007 , 28, 1572-1580	4.7	17
60	Fuzzy handoff algorithms for wireless communication. <i>Fuzzy Sets and Systems</i> , 2000 , 110, 379-388	3.7	17
59	Theoretical derivation of minimum mean square error of RBF based equalizer. <i>Signal Processing</i> , 2007 , 87, 1613-1625	4.4	16
58	An Intrusion Detection System Based on Multi-Level Clustering for Hierarchical Wireless Sensor Networks. <i>Sensors</i> , 2015 , 15, 28960-78	3.8	15
57	Intrusion prevention with two-level user authentication in heterogeneous wireless sensor networks. <i>International Journal of Security and Networks</i> , 2012 , 7, 107	0.5	14

56	Advances in micro-calcification clusters detection in mammography. <i>Computers in Biology and Medicine</i> , 2002 , 32, 515-28	7	14
55	Throughput and delay of single-hop and two-hop aeronautical communication networks. <i>Journal of Communications and Networks</i> , 2015 , 17, 58-66	4.1	12
54	Impact of mobility prediction on the performance of Cognitive Radio networks 2010 ,		11
53	Microcellular handoff using fuzzy techniques. <i>Wireless Networks</i> , 1998 , 4, 401-409	2.5	11
52	Adaptive VBR video traffic management for higher utilization of ATM networks. <i>Computer Communication Review</i> , 1998 , 28, 27-40	1.4	10
51	Applications of Higher Order Statistics in Electroencephalography Signal Processing: A Comprehensive Survey. <i>IEEE Reviews in Biomedical Engineering</i> , 2020 , 13, 169-183	6.4	10
50	A brief survey of access control in Wireless Sensor Networks 2011 ,		9
49	P300 Based Single Trial Independent Component Analysis on EEG Signal. <i>Lecture Notes in Computer Science</i> , 2009 , 404-410	0.9	8
48	Gait monitoring system for patients with Parkinson's disease using wearable sensors 2016 ,		8
47	Universal Nonhierarchical Automatic Modulation Recognition Techniques For Distinguishing Bandpass Modulated Waveforms Based On Signal Statistics, Cumulant, Cyclostationary, Multifractal And Fourier-Wavelet Transforms Features 2014 ,		7
46	ATMTN: a telemammography network architecture. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 1438-43	5	7
45	Automatic Modulation Recognition techniques based on cyclostationary and multifractal features for distinguishing LFM, PWM and PPM waveforms used in radar systems as example of artificial intelligence implementation in test 2012 ,		6
44	Performance evaluation of flexible TDD switching in 3GPP LTE system 2012 ,		6
43	Public key cryptography-based security scheme for wireless sensor networks in healthcare 2010 ,		6
42	VBR video traffic management using a predictor-based architecture. <i>Computer Communications</i> , 2000 , 23, 62-70	5.1	6
41	Information Dissemination From Social Network for Extreme Weather Scenario. <i>IEEE Transactions on Computational Social Systems</i> , 2020 , 7, 319-328	4.5	5
40	Constrained Motion Particle Swarm Optimization and Support Vector Regression for Non-linear Time Series Regression and Prediction Applications 2013 ,		5
39	PCAC: Power- and Connectivity-Aware Clustering for Wireless Sensor Networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015 , 2015,	3.2	5

38	Coherence time-based cooperative MAC protocol 1 for wireless ad hoc networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2011 , 2011,	3.2	5
37	Advanced two tier User Authentication scheme for heterogeneous Wireless Sensor Networks 2011 ,		5
36	Single trial independent component analysis for P300 BCI system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4035-8	0.9	5
35	Standardization for image characteristics in telemammography using genetic and nonlinear algorithms. <i>Computers in Biology and Medicine</i> , 2005 , 35, 183-96	7	5
34	Polarization-based cooperative directional MAC protocol for ad hoc networks. <i>Ad Hoc Networks</i> , 2013 , 11, 1522-1538	4.8	4
33	Grand challenge award: Interactive visual analytics palantir: The future of analysis 2008 ,		4
32	Adaptive-Rate Transmission With Opportunistic Scheduling in Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 1409-1415	6.8	3
31	Improved transient weather reporting using people centric sensing 2013 ,		3
30	A novel acoustic catheter stethoscope based acquisition and signal processing framework to extract multiple bio signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1336-1339	0.9	2
29	Hybrid cooperative MAC protocol for wireless ad hoc networks 2012 ,		2
28	Throughput and delay analysis in Aeronautical Data Networks 2012 ,		2
27	Advances and Challenges in Signal Analysis for Single Trial P300-BCI. <i>Lecture Notes in Computer Science</i> , 2011 , 87-94	0.9	2
26	Throughput analysis in Aeronautical Data Networks 2011 ,		2
25	Enhanced speaker recognition based on intra-modal fusion and accent modeling 2008 ,		2
24	A KNOWLEDGE-BASED LUNG NODULE DETECTION SYSTEM FOR HELICAL CT IMAGES. <i>International Journal of Computational Intelligence and Applications</i> , 2006 , 06, 371-387	1.2	2
23	Digital signal processing for precision wide-swath bathymetry. <i>IEEE Journal of Oceanic Engineering</i> , 1984 , 9, 73-84	3.3	2
22	A New Single Trial P300 Classification Method. <i>International Journal of E-Health and Medical Communications</i> , 2012 , 3, 31-41	1.4	2
21	Classification of the stages of Parkinson's disease using novel higher-order statistical features of EEG signals. <i>Neural Computing and Applications</i> , 2021 , 33, 7615-7627	4.8	2

20	Classification of Parkinson's disease Using Pitch Synchronous Speech Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 1420-1423</i>	0.9	2
19	A novel pitch cycle detection algorithm for tele monitoring applications 2020,		1
18	Text dependent speaker recognition using shifted MFCC 2013,		1
17	Signal processing techniques for atrial fibrillation source detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 2821-4</i>	0.9	1
16	Text dependent speaker recognition using shifted MFCC 2012,		1
15	Buffer-aware packet scheduling in downlink multiuser systems 2013,		1
14	ADMAC with Integrated Destination Discovery for Ad Hoc Networks. <i>IEEE Communications Letters, 2010, 14, 704-706</i>	3.8	1
13	Atrial fibrillation source identification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 4398-401</i>	0.9	1
12	Pitch conversion based on pitch mark mapping 2007,		1
11	Enhanced speaker recognition based on score level fusion of AHS and HMM 2007,		1
10	Integrated network architecture and signal processing for telemammography 2002,		1
9	Complex Network Approach for Power Grids Vulnerability and Large Area Blackout. <i>Lecture Notes in Computer Science, 2016, 206-213</i>	0.9	1
8	A Collusion-Resistant Identity-Based Proxy Reencryption Scheme with Ciphertext Evolution for Secure Cloud Sharing. <i>Security and Communication Networks, 2020, 2020, 1-16</i>	1.9	1
7	Novel Unsupervised Feature Extraction Protocol using Autoencoders for Connected Speech: Application in Parkinson's Disease Classification 2021,		1
6	Performance trending for management of packet-switched networks. <i>International Journal of Network Management, 1994, 4, 69-78</i>	1.8	0
5	An effect of phase noise for an indoor wireless system. <i>Information Systems, 2015, 48, 262-266</i>	2.7	
4	Lossless compression for x-ray mammogram images 2003, 5014, 337		
3	QoS mapping scheme and a model for MAN-ATM internetworking. <i>Computer Communications, 1996, 19, 276-286</i>	5.1	

- 2 Novel Catheter Multiscope: A Feasibility Study. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 606-615 5
- 1 Diagnosis of Parkinson's disease using higher order statistical analysis of alpha and beta rhythms. *Biomedical Signal Processing and Control*, **2022**, 77, 103743 4-9